

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S7	305551	di\$2t\$1ylformamide or \$2thylformamide or (di\$2t\$1yl adj formamide) or ((di\$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/29 20:50
S8	566	((proton\$2 or (single adj ion\$2)) adj conductor?)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/29 20:51
S9	374140	(perfluoro adj (sulfur\$2 or sulfo\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?)) or Nafion or Aciplex or Flemion or "Nafion 117"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/29 20:54
S10	1793	S9 same ((acid adj treat \$4) or (halogen adj peroxide))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/29 20:56
S11	9	S7 S8 S10	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/29 20:56
S12	2	("7179559").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/10/29 21:26
S13	4	((("6607856") or ("20030087972")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/10/29 21:47
S14	2	("20060099474").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/10/30 08:06
S15	61836	(perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:25

S16	489	S15 and (dissociat\$3 near3 group?)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:26
S17	19681	((proton\$2 or (single adj ion\$2) or electrolyte) adj (material or membrane or conductor?)) or (polymer adj electrolyte adj (material or membrane or conductor?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:28
S18	63	S16 S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:29
S19	305899	di\$2t\$1ylformamide or \$2thylformamide or (di\$2t \$1yl adj formamide) or ((di \$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:29
S20	29	S18 S19	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:29
S21	5	((("7153608") or ("6777133") or ("6495290"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/10/30 09:35
S22	3	S19 S21	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:36
S23	1	S19 "93" S22	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:36
S24	1	S15 S21	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 09:37
S25	1372	(di\$2t\$1ylformamide or \$2thylformamide or (di\$2t \$1yl adj formamide) or ((di \$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF) same2 ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 10:57

S26	172	S25 and (((dissociat\$3 or sulfur\$3 or sulfur\$2 or carboxyl\$2 or hydroxy?) near3 group?) with (amount or number? or mole? or value?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 10:59
S27	116	S26 @ad <="20021118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:00
S28	116	S27 not S18 not S20 not S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:00
S29	0	S27 S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:00
S30	61	((di\$2t\$1ylformamide or \$2thylformamide or (di\$2t \$1yl adj formamide) or ((di \$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF) same ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117") same (conductor or membrane or PEM or electrolyte)	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:02
S31	0	S30 and (((dissociat\$3 or sulfur\$3 or sulfur\$2 or carboxyl\$2 or hydroxy?) near3 group?) with (amount or number? or mole? or value?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:02
S32	1	S30 and (((dissociat\$3 or sulfur\$3 or sulfur\$2 or carboxyl\$2 or hydroxy?) near3 group?) same (amount or number? or mole? or value?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:02
S33	0	S30 and (proto\$3 adj (((dissociat\$3 or sulfur\$3 or sulfur\$2 or carboxyl\$2 or hydroxy? or leav\$3) adj3 group?) with (amount or number? or mole? or value?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:04

S34	11	(proto\$3 adj ((dissociat\$3 or sulfur\$3 or sulfur\$2 or carboxyl\$2 or hydroxy? or leav\$3) adj3 group?) with (amount or number? or mole? or value?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:04
S35	0	(JP2006335816).pran.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:08
S36	0	("2006335816").pran.	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:08
S37	0	"JP 2006-335816"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:08
S38	408958	((proton\$2 or (single adj ion\$2) or electrolyte or conduct\$3) adj (material or membrane or conductor? or composit \$3)) or (polymer adj electrolyte adj (material or membrane or conductor?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:09
S39	1319	S38 and (di\$2t \$1ylformamide or \$2thylformamide or (di\$2t \$1yl adj formamide) or ((di \$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF) and ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:10
S40	75	S38 and (di\$2t \$1ylformamide or \$2thylformamide or (di\$2t \$1yl adj formamide) or ((di \$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF) same ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:10

		polymer) or Nafion or Aciplex or Flemion or "Nafion 117")				
S41	31	S40 @ad <= "20021118"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:11
S42	27	S38 and (di\$2t \$1ylformamide or \$2thylformamide or (di\$2t \$1yl adj formamide) or ((di \$2thyl or \$2thyl or butyl or dissopropyl or benzil) adj formamide) or DMF or MF or BF) with ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 11:13
S43	76	S38 and (amide near2 (compound or polymer or solvent)) with ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 12:35
S44	19681	((proton\$2 or (single adj ion\$2) or electrolyte) adj (material or membrane or conductor?)) or (polymer adj electrolyte adj (material or membrane or conductor?)) same (amide near2 (compound or polymer or solvent)) with ((perfluoro adj (sulfur\$2 or sulfo\$3 or carboxyl\$3) adj (acid? or group?)) or ((sulfur\$2 or sulfo\$3 or hydroxy\$3 or carboxy\$3) adj (acid? or group?) with polymer) or Nafion or Aciplex or Flemion or "Nafion 117")	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 12:35

S45	8419	S43 and ((proton\$2 or (single adj ion\$2) or electrolyte) adj (material or membrane or conductor?)) or (polymer adj electrolyte adj (material or membrane or conductor?))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 12:36
S46	1	S43 and (((proton\$2 or (single adj ion\$2) or electrolyte) adj (material or membrane or conductor?)) or (polymer adj electrolyte adj (material or membrane or conductor?)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2008/10/30 12:36

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